

Comparisons of Job Characteristics

Focus Occupation: [Structural Iron and Steel Workers \(47-2221\)](#)

Associated Occupation: [Reinforcing Iron and Rebar Workers \(47-2171\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 83

Focus Occupation: Structural Iron and Steel Workers (47-2221)
Associated Occupation: Reinforcing Iron and Rebar Workers (47-2171)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Building and Construction	4.0	16.9	18.3	0 Current knowledge level may be sufficient
Mechanical	6.8	9.1	13.5	>> Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 93

Focus Occupation: Structural Iron and Steel Workers (47-2221)
Associated Occupation: Reinforcing Iron and Rebar Workers (47-2171)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Operation and Control	5.4	8.2	10.8	>> Skill level is likely more than sufficient
Equipment Selection	3.3	5.6	6.1	0 Current skill level may be sufficient
Repairing	3.4	5.2	6.2	> Skill level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 92

Focus Occupation: Structural Iron and Steel Workers (47-2221)
Associated Occupation: Reinforcing Iron and Rebar Workers (47-2171)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Static Strength	5.0	12.9	16.6	>>	Current ability level is likely more than sufficient
Extent Flexibility	4.8	12.5	12.1	0	Current ability level may be sufficient
Trunk Strength	5.7	12.2	12.6	0	Current ability level may be sufficient
Multilimb Coordination	6.0	11.8	15.3	>>	Current ability level is likely more than sufficient
Manual Dexterity	6.5	11.2	13.5	>	Current ability level is likely sufficient
Reaction Time	4.8	10.2	12.3	>	Current ability level is likely sufficient
Stamina	4.0	9.7	10.3	0	Current ability level may be sufficient
Gross Body Equilibrium	3.2	9.0	13.0	>>	Current ability level is likely more than sufficient
Dynamic Strength	3.5	8.8	11.5	>>	Current ability level is likely more than sufficient
Gross Body Coordination	3.9	8.5	10.0	>	Current ability level is likely sufficient
Speed of Limb Movement	3.2	8.0	8.6	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 95

Focus Occupation: Structural Iron and Steel Workers (47-2221)
Associated Occupation: Reinforcing Iron and Rebar Workers (47-2171)

Work Activities	Exclusivity of Activity
Adhere to safety procedures	12
Build or repair structures in construction, repair, or manufacturing setting	54
Burn (cut), trim, or scarf metal objects	80
Cut metal or plastic	77
Erect scaffold	56
Fabricate, assemble, or disassemble manufactured products by hand	11
Identify base metals for welding	68
Identify properties of metals for repair or fabrication activities	71
Move or fit heavy objects	8
Perform safety inspections in construction or resource extraction setting	46
Read blueprints	10
Use acetylene welding/cutting torch	54
Use arc welding equipment	62
Use hand or power tools	2
Use measuring devices in construction or extraction work	41
Weld together metal parts, components, or structures	54

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 85

Focus Occupation: Structural Iron and Steel Workers (47-2221)
Associated Occupation: Reinforcing Iron and Rebar Workers (47-2171)

Tools and Technologies	Exclusivity
Business function specific software	1
Compressors	9
Computers	1
Cutting and crimping and punching tools	3
Face and head protection	7
Fall protection	16
Forming tools	2
Holding and clamping tools	3
Industry specific software	1
Ladders and scaffolding	6
Lifting equipment and accessories	3
Pneumatic tools	8
Power tools	2
Prying and bending tools	10
Safety apparel	4
Soldering and brazing and welding machinery and supplies	6
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.